

Title II Project Application
Medford District Resource Advisory Committee

1. Project Number (Assigned by federal unit): 118-410 **AMOUNT REQUESTED** \$114,950

2. Project Name: McCullough Creek Culvert Replacement **3. County:** Douglas

4. Project Sponsor: Joseph Koontz, Swanson Group **5. Date:** 3/10/03

6. Sponsors Phone #: 541-832-1215

7. Sponsor's E-mail: _____

8. Project Location (attach project area maps showing general and specific locations of project.)

a. 4th Field Watershed Name and HUC #(if known): South Umpqua River (17100302)

b. 5th Field Watershed Name and HUC #(if known): Middle Cow Creek (1710030207)

c. Legal Location: Township 32S Range 6W Section 31

d. BLM District : Medford e. BLM Resource Area : Glendale

f. National Forest _____ g. Forest Service District _____

☐ h. State / Private / other lands involved? **X Yes** No

9. Statement of Project Goals and Objectives:

To restore passage for salmon , steelhead and other aquatic species past a culvert on a Swanson Group (Superior Lumber Company) logging haul road.

10. Project Description: (Provide concise description of project and attach map.)

The existing 70'L x 8'D culvert is a partial barrier to upstream passage of adult salmon and steelhead and a total barrier to small fish and other aquatic species. This stream supports Oregon Coast (OC) coho salmon, a federally threatened fish species and OC steelhead (ESA- candidate). The drop at the culvert outlet ranges from less than 1 foot to more than 3 feet from year to year, depending on the amount of stream bedload (rock) that peak winter flows deposit immediately downstream of the culvert. This round culvert at times creates excessive water velocities for even adult salmon and steelhead to negotiate; velocities always exceed swimming abilities of small fish and other aquatic species. High water velocity results because the pipe diameter is much smaller than average width of the stream channel. The culvert is also too small for the watershed area upstream and cannot efficiently pass all peak flows. Road integrity is threatened, as is water and stream habitat quality.

The proposed project involves replacing the existing round culvert with a bridge or bottomless structure that would maintain the natural streambed substrate, channel gradient and be wide enough to accommodate typical winter peak flows. The new structure would also be large enough to pass the theoretical 100 year flood, to prevent road failure, and it would allow adult and juvenile salmon and steelhead, amphibians, lamprey and other aquatic species to reach suitable habitat upstream of the crossing structure under virtually all streamflow conditions.

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11. Coordination of this project with other related project(s) on adjacent lands?

☒ Yes No

The Medford BLM has completed many fish passage projects, as well as road renovation and decommissioning in this watershed in the last several years (detailed list available upon request), several in partnership with other landowners. Additionally, FY02 Title II funding will be used in summer 2003 to replace two culverts on Douglas County roads in partnership with the county and the Umpqua Basin Watershed Council. We are also currently working with the Douglas County Soil and Water Conservation District, Cow Creek Irrigation Company, private landowners and the Oregon Department of Fish and Wildlife to make a water diversion on private land more fish-friendly and to alleviate streambank erosion. (FY03 Title II funding).

12. How does proposed project meet purposes of the Legislation? [Sec. 203(b)(1)]

- ☒ Improves maintenance of existing infrastructure. [Sec. 2(b)]
Implements stewardship objectives that enhance forest ecosystems. [Sec. 2(b)]
- ☒ Restores and improves land health. [Sec. 2(b)]
Restores water quality. [Sec. 2(b)]

13. Project Type (*check one*) [Sec. 203(b)(1)]

- | | |
|--|---|
| <input checked="" type="checkbox"/> Road Maintenance [Sec. 2(b)(2)(A)] | <input type="checkbox"/> Trail Maintenance [Sec. 2(b)(2)(A)] |
| <input type="checkbox"/> Road Decommission/Obliteration [Sec. 2(b)(2)(A)] | <input type="checkbox"/> Trail Obliteration [Sec. 2(b)(2)(A)] |
| <input type="checkbox"/> Other Infrastructure Maintenance (specify): _____ [Sec. 2(b)(2)(A)] | |
| <input type="checkbox"/> Soil Productivity Improvement [Sec. 2(b)(2)(B)] | <input type="checkbox"/> Forest Health Improvement [Sec. 2(b)(2)(C)] |
| <input checked="" type="checkbox"/> Watershed Restoration & Mntc. [Sec. 2(b)(2)(D)] | <input type="checkbox"/> Wildlife Habitat Restoration [Sec. 2(b)(2)(E)] |
| <input checked="" type="checkbox"/> Fish Habitat Restoration [Sec. 2(b)(2)(E)] | <input type="checkbox"/> Control of Noxious Weeds [Sec. 2(b)(2)(F)] |
| <input type="checkbox"/> Reestablish Native Species [Sec. 2(b)(2)(G)] | |
| <input type="checkbox"/> Other Project Type (specify) [Sec. 2(b)(2)]: _____ | |

14. Measure of Project Accomplishments/Expected Outcomes [Sec. 203(b)(5)]

(Use workload measures used for the budget process)

- | | |
|-------------------------------|---|
| a. Total Acres: NA | b. Total Miles: 3 miles upstream of the culvert |
| c. No. Structures: 1 | d. Estimated People Reached (for environmental education projects): _____ |
| e. No. Of Laborer Days: 45 | |
| f. Other (specify): _____ | |
| g. Program Element: JH | |

15. Duration of Project and Estimated Completion Date [Sec. 203(b)(2)]:

To be completed between July 1 and September 15, the ODFW preferred instream work period; probably during summer 2005. Project design, and contract preparation, advertising and award during 2004.

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16. Target Species (plants/wildlife etc.) Benefited: (if applicable)

Coho salmon (federal ESA-threatened species), steelhead trout (federal ESA- candidate), as well as cutthroat trout, lamprey and other aquatic species.

7. How will cooperative relationships among people that use federal lands be improved? [Sec. 2(b)(3)] Due to the highly visible nature of the project, the public would become more aware of BLM and private landowner responsibilities in managing their road systems and the importance of improving fish and wildlife habitat and watershed health near their communities.

18. How is this project in the best public interest? [Sec. 203(b)(7)] **Identify benefits to communities?**

The project would complement objectives of the Oregon Salmon Plan and help to increase production of anadromous fish, including opportunities for recreational and commercial fishing.

19. How does project benefit federal lands/resources?

An additional 3 miles of habitat would be made available to anadromous and resident fish for spawning and rearing under all streamflow conditions.

20. Status of Project Planning

- | | | | |
|---|--------------|-----------------------------|--|
| a. NEPA Complete: | X Yes | <input type="checkbox"/> No | |
| b. If No, give est. date of completion: _____ | | | |
| c. NMFS Sec. 7 ESA Consultation Complete: | X Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not Applicable |
| d. USFWS Sec. 7 ESA Consultation Complete: | Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not Applicable |
| e. Survey & Manage Complete: | Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not Applicable |
| f. DSL/ODFW* Permits Obtained: | Yes | X No | <input type="checkbox"/> Not Applicable |
| g. DLS/COE* 404 Fill/Removal Permit Obtained: | Yes | X No | <input type="checkbox"/> Not Applicable |
| h. SHPO* Concurrence Received: | Yes | X No | <input type="checkbox"/> Not Applicable |
| i. Project Design(s) Completed: | Yes | X No | <input type="checkbox"/> Not Applicable |

* DSL = Dept. of State Lands, ODFW = Oregon Dept. of Fish and Wildlife, COE = Army Corps of Engineers, SHPO = State Historic Preservation Officer

21. Proposed Method(s) of Accomplishment

- | | |
|--|-------------------------------------|
| X Contract | X Federal Workforce |
| County Workforce | <input type="checkbox"/> Volunteers |
| <input type="checkbox"/> Other (specify): _____ | |

22. Will the Project Generate Merchantable Materials? (Sec. 204(e)(3))

☐ Yes **X No**

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23. Anticipated Project Costs [Sec. 203(b)(3)]

- a. Total County Title II Funds Requested: **\$114,950**
- b. Is this a multi-year funding request? Yes ☒ **No** If yes, then display by fiscal year
- e. FY04 Request: \$ _____
- f. FY05 Request: \$ _____
- g. FY06 Request: \$ _____

***** Note: If you have a complex budget, add it as an appendix. The Resource Advisory Committee will want to know specifically how the funds will be spent.**

Item	Fed. Agency Appropriated Contribution [Sec. 203(b)(4)]	Requested County Title II Contribution [Sec. 203(b)(4)]	Other Contributions [Sec. 203(b)(4)]	Total Available Funds
24. Field Work & Site Surveys	1500			
25. NEPA & Sec.7 ESA Consultation	1000			
26. Permit Acquisition		500		
27. Project Design & Engineering		10,000		
28. Contract Preparation		5,000		
29. Contract Administration		5,000		
30. Contract Cost		4,000		
31. Workforce Cost		25,000		
32. Materials & Supplies		54,000		
33. Monitoring		1,000		
34. Other				
35. Project Subtotal		104,500		
36. Indirect Costs (Overhead) (per year for multiple year projects)		1,0450		
37. Total Cost Estimate	\$2,500	\$114,950	\$	\$

38. Identify Source(s) of Other Funding in Column C. Above [Sec. 203(b)(4)]

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39. Monitoring Plan (Sec.203 (b)(6))

- a. What measures or evaluations will be made to determine how well the proposed project meets the desired ecological conditions? [Sec. 203(b)(6)] Who will be responsible for this monitoring item?** BLM and ODFW would conduct coho or steelhead spawning surveys at the appropriate time of year.
- b. How will the project be evaluated to determine how well the proposed project contributes towards local employment and/or training opportunities, including summer youth jobs programs such as the Youth Conservation Corps? [Sec. 203(b)(6)]** The number of laborers required for this project would be determined through the survey and design process. It would up to the contractor that is selected to hire the number of people with appropriate skills needed to complete the project according to design specifications within the required time frame.
- c. What methods and measures of evaluation will be established to determine how well the proposed project improves the use of, or added value to, any products removed from National Forest System lands consistent with the purposes of this Act? [Sec. 203(b)(6) and Sec. 204(e)(3)] Who will be responsible for this monitoring item?** Not Applicable
- d. Identify total funding needed to carry out specified monitoring tasks (Table 1, Item 33)**

Amount: \$1000

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McCullough Creek culvert outlet. A 2 foot drop at the outlet and excessive water velocity (because it is much narrower than the average stream channel width) creates a partial barrier to adult salmon and steelhead and a total barrier to small fish.



McCullough Creek culvert inlet. Culvert diameter is less than $\frac{1}{2}$ of the active channel width, creating excessive water velocity for fish and other aquatic species.



The McCullough Creek culvert would be replaced with a structure similar to this, which is on another Cow Creek tributary near Glendale.